

# CALL FOR PAPERS

PHM | 2025

Bruges  
Belgium

## Important Dates

Draft Full Paper Submission Due  
March 20, 2025

Notification of Paper Acceptance  
April 20, 2025

Final Manuscript Due  
May 5, 2025

Author Registration Deadline  
May 10, 2025

Conference Dates  
June 2 - 5, 2025

## Conference Committee

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## The 15<sup>th</sup> Prognostics and System Health Management Conference, June 2 – 5, 2025

Following the successful PHM conferences over the past 14 years, the 15<sup>th</sup> Prognostics and System Health Management Conference (PHM 2025) will be held in Bruges, Belgium, on **June 2-5, 2025**. This conference will be held together by KU Leuven, RISE Research Institutes of Sweden, KTH Royal Institute of Technology, Le Cnam, Université Paris Saclay, Zhengzhou University of Light Industry, University of Bath, Femto-St Institute, L2S, GeePS, HBM Prencsia, CTBU, and CJA. Please refer to the conference website ([www.phmice.org](http://www.phmice.org)) for more details. Please contact us ([phm2025@phmice.org](mailto:phm2025@phmice.org)) if you have any questions.

Bruges is a place that lives and breathes history. Visiting this historic city means travelling back in time to the Middle Ages. It is both magical and authentic. Bruges is one of Europe's best-preserved cities. This is evidenced by its historic city centre, the entirety of which has been designated a UNESCO world heritage site. The iconic spires of its cathedral and bell tower, its cobbled streets, winding canals and whitewashed facades are picturesque. But there is more to Bruges than old-town charm. From delicious handmade chocolates to art museums and Michelin-starred restaurants, come to find the best things to do in Bruges.

## Topics of Interest

PHM 2025 is seeking original papers for presentations at the conference. Researchers and participants from industry, academia, and government organizations are invited to submit their papers on the following topics. Participants with only abstract submissions are also welcome to the conference.

### Principles

- Fault detection and diagnosis
- Aging influence in PHM
- Fault estimation and prediction
- Structural sensing
- Modeling and simulation
- Data-driven methods
- Model-based methods
- Sensor fusion
- Logic/reasoning techniques
- Machine/deep learning for PHM
- Affordability aspects and business cases for PHM
- Standards and methodologies

### System Designs & Implementation

- Online/real time monitoring
- Requirements development
- System design & engineering
- Automated reconfiguration
- Statistical analysis of uncertainty
- Component-level PHM
- Nondestructive evaluation technologies with PHM utilization
- Decision support & simulation
- PHM computer-aided engineering technologies
- Physics of failure
- Blockchain for PHM
- Verification, validation, and maturation

### Applications

- Rail transportation
- PHM for power smart grid
- PHM for electronics components and systems
- PHM within innovative aerospace and defense, appliance, medical, electric vehicle, deep drilling, and energy applications
- Fleet/industrial PHM-based maintenance management
- Lessons learned from PHM systems design and integration
- Cloud computing for PHM
- PHM for energy systems
- Sensors and devices

